# **SIEMENS**

Data sheet 3RT1266-6AB36



vacuum contactor AC-3e/AC-3 300 A, 160 kW / 400 V, 3-pole, Uc: 23-26 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS	
product designation	Vacuum contactor	
product type designation	3RT12	
General technical data		
size of contactor	S10	
product extension		
<ul> <li>function module for communication</li> </ul>	No	
<ul> <li>auxiliary switch</li> </ul>	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	42 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	14 W	
<ul> <li>without load current share typical</li> </ul>	8.2 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V	
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	8 kV	
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V	
shock resistance at rectangular impulse		
• at AC	8,5g / 5 ms, 4,2g / 10 ms	
• at DC	8,5g / 5 ms, 4,2g / 10 ms	
shock resistance with sine pulse		
• at AC	13,4g / 5 ms, 6,5g / 10 ms	
• at DC	13,4g / 5 ms, 6,5g / 10 ms	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	05/01/2012	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
during operation	-25 +60 °C	
during storage	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	330 A
rated value	
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	330 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	300 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	330 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul>	300 A
• at AC-3	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	300 A
— at 1000 V rated value	300 A
• at AC-3e	200 4
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	300 A
— at 1000 V rated value	300 A
at AC-4 at 400 V rated value	280 A
• at AC-6a	200 A
— up to 230 V for current peak value n=20 rated value	300 A
— up to 400 V for current peak value n=20 rated value	300 A
— up to 500 V for current peak value n=20 rated value	300 A
— up to 690 V for current peak value n=20 rated value	300 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	300 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	209 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	209 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	209 A
— up to 690 V for current peak value n=30 rated value	209 A
— up to 1000 V for current peak value n=30 rated value	209 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	140 A
at 690 V rated value	140 A
operating power  ● at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	400 kW
at AC-3e  at 230 V reted value.	00 144
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW

— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
<ul><li>— at 1000 V rated value</li></ul>	400 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	79 kW
<ul><li>at 690 V rated value</li></ul>	138 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	120 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	200 000 VA
• up to 500 V for current peak value n=20 rated value	260 000 VA
up to 690 V for current peak value n=20 rated value	350 000 VA
up to 1000 V for current peak value n=20 rated	520 000 VA
value	
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	80 000 VA
• up to 400 V for current peak value n=30 rated value	140 000 VA
• up to 500 V for current peak value n=30 rated value	180 000 VA
up to 690 V for current peak value n=30 rated value	250 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	360 000 VA
value	000 000 VA
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
3.1 = 3	2 000 1/11
operating frequency  • at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	750 1/h
at AC-3e maximum	750 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	22 221
• at 50 Hz rated value	23 26 V
<ul><li>at 50 Hz rated value</li><li>at 60 Hz rated value</li></ul>	23 26 V 23 26 V
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> </ul>	23 26 V
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> </ul>	
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated</li> </ul>	23 26 V
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> </ul>	23 26 V 23 26 V
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> </ul>	23 26 V 23 26 V 0.8
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> </ul>	23 26 V 23 26 V
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated</li> </ul>	23 26 V 23 26 V 0.8
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> </ul>	23 26 V 23 26 V 0.8 1.1
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	23 26 V 23 26 V 0.8 1.1
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	23 26 V 23 26 V  0.8 1.1  0.8 1.1 0.8 1.1
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> </ul>	23 26 V 23 26 V 0.8 1.1
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor apparent pick-up power of magnet coil at AC</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA
at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC  at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA 590 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1  with varistor  590 VA  590 VA  0.9  0.9  6.1 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA 590 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1  with varistor  590 VA  590 VA  0.9  0.9  6.1 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA  0.9  0.9  6.1 VA 6.1 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA  590 VA  0.9  0.9  6.1 VA  6.1 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA  0.9  0.9  6.1 VA  6.1 VA  0.9  0.9
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>closing power of magnet coil at DC</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA  0.9  0.9  6.1 VA 6.1 VA  0.9  0.9  700 W
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA  0.9  0.9  6.1 VA  6.1 VA  0.9  0.9
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>closing delay</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA  0.9 0.9  6.1 VA 6.1 VA  0.9 0.9 700 W 8.2 W
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>closing delay</li> <li>at AC</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1  with varistor  590 VA  590 VA  0.9  0.9  6.1 VA  6.1 VA  0.9  0.9  700 W  8.2 W  30 95 ms
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>perating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>design of the surge suppressor</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>closing delay</li> </ul>	23 26 V  23 26 V  0.8  1.1  0.8 1.1  0.8 1.1 with varistor  590 VA 590 VA  0.9 0.9  6.1 VA 6.1 VA  0.9 0.9 700 W 8.2 W

	40 00 00
• at AC	40 80 ms 40 80 ms
• at DC	40 80 ms 10 15 ms
arcing time control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Standard AT - AZ
	2
number of NC contacts for auxiliary contacts instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
<ul><li>at 48 V rated value</li></ul>	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
<ul><li>at 24 V rated value</li></ul>	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	302 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value	302 A 289 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor	289 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value	289 A 100 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value	289 A  100 hp 125 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value	289 A  100 hp 125 hp 250 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value	289 A  100 hp 125 hp 250 hp 300 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL	289 A  100 hp 125 hp 250 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	289 A  100 hp 125 hp 250 hp 300 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link	289 A  100 hp 125 hp 250 hp 300 hp
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface;
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting height	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting height width	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting height width depth	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  yielded mechanical performance [hp] • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting height width depth required spacing	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	289 A  100 hp 125 hp 250 hp 300 hp A600 / Q600  gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm 206 mm

— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

#### type of electrical connection

- for main current circuit • for auxiliary and control circuit
- at contactor for auxiliary contacts
- of magnet coil

width of connection bar thickness of connection bar

diameter of holes number of holes

connectable conductor cross-section for main contacts

stranded

connectable conductor cross-section for auxiliary contacts

- · solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- for auxiliary contacts
  - solid
  - solid or stranded
  - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for auxiliary contacts

Connection bar

screw-type terminals

Screw-type terminals

Screw-type terminals

25 mm 6 mm

11 mm 1

70 ... 240 mm<sup>2</sup>

0.5 ... 4 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

18 ... 14

#### Safety related data

#### product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

Yes

No

20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

### Certificates/ approvals

## **General Product Approval**





Confirmation



**KC** 





#### **Type Examination Certificate**





**Special Test Certific-**<u>ate</u>

Type Test Certificates/Test Report

Marine / Shipping

other











Confirmation

other

Railway

Confirmation

**Miscellaneous** 

Special Test Certific- Vibration and Shock

#### **Further information**

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1266-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1266-6AB36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1266-6AB36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

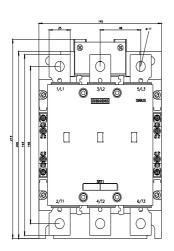
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1266-6AB36&lang=en

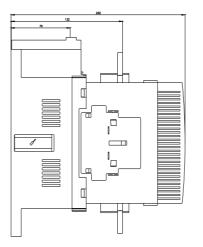
Characteristic: Tripping characteristics, I2t, Let-through current

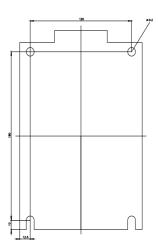
https://support.industry.siemens.com/cs/ww/en/ps/3RT1266-6AB36/char

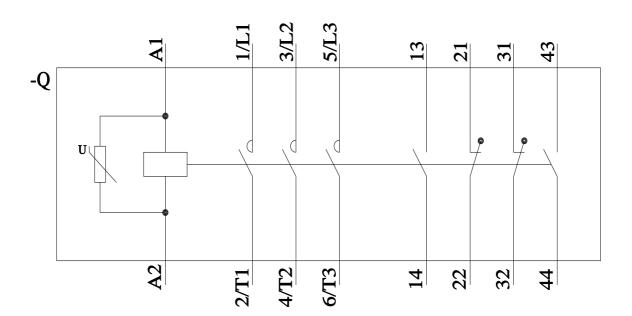
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1266-6AB36&objecttype=14&gridview=view1









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